N° 4921 A.D. 1910

Date of Application, 28th Feb., 1910—Accepted, 23rd June, 1910

COMPLETE SPECIFICATION.

Improvements in Dust or Waste Bins or Receptacles.

We, MIGUEL MUNAR Y CONA, of 9, Marques de Valdeiglesias, Madrid, Spain, Engineer, and BENITO GUITART TRULLS, of the same place, Architect, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has as its object to provide a bin or receptacle closing automatically and hermetically; destined to contain dirt, filth, dust, ashes, waste food remains, refuse, rags and dirty clothes, *etc.*; be they infected or not; in order to keep them isolated from the outer air, and thereby prevent any noxious emanations from contaminating the air or communicating disease to any person.

Hitherto it has been customary to place the above referred to substances in a box which might or might not have a cover but without any precautions as to hermetically sealing the cover thus any obnoxious or infectious emanations from the contents of the box were freely diffused in the surrounding air with results dangerous to health.

The object of our invention is to provide a receptacle for keeping the dirt of a house, where the first condition of the apparatus is, that being closed, it prevents any of the gases which are thrown off escaping into the outer air; also the no less important condition, that the receptacle does not remain open, even occasionally.

In order to get the first condition, we make the juncture with the cover so as to be hermetically closed, and to obtain the second, it is done by the cover closing by its own weight, the moment the pedal, or handle raising it is released.

Our apparatus is composed principally of a receptacle of any shape, dimensions or material, provided with a cover having an edge or lip so placed that, when the said receptacle is closed, the edge or lip mentioned is immersed in water, or any other liquid or solid substance (such as sand, chloride of lime, *etc.*), thus forming an hermetically sealed juncture. The cover of the receptacle is raised by a pedal or handle setting in motion levers connected with the cover, and the closing is effected automatically, generally by the weight of the cover, it being practicable also to use mechanical devices for this purpose.

In the attached drawings and, simply as an example of the detail of our apparatus, we present.

Figure 1, as a vertical section of it;

Figure 2, as a plan;

Figure 3, as a horizontal section; and

Figure 4, is a vertical section of a modification of the design of the apparatus.

In Figure 1 of these drawings we have a cylindrical receptacle A made of sheet iron, supported on three feet B within which is disposed an axle or shaft O supported from the bottom of the receptacle A, and another I supported on the after foot B. On these axles O, I, are pivoted the levers C^1, C^2 which connect the rod D with the pedal C, which on depression raises the cover E by means of the rod D connected to the arm D^1 which arm pivots the cover E to the receptacle A. The said cover E is provided with a downward projecting edge or lip F which plunges itself in water or any other suitable substance con-

[*Price* 8*d.*]

tained in the trough G situated at the upper edge of the receptacle. By prolonging the lever C^1 upwards to about the level of the trough G it may be operated by hand instead of by the foot.

The rear part of the lower lever C^1 is pushed downwards by a spring J, in order to give the first part of the movement of the cover E for closing; and the spiral spring L connected to the rod D and with the regulating screw M, serves for regulating the movement.

In the inside of the receptacle is placed a zinc or galvanized iron pail marked H for containing the rubbish, dirt, *etc.* to be carried away and emptied. This pail, which can be made in any convenient shape, can be provided with an extra loose cover to be used when transporting its contents and the cover can be kept near the dust-bin.

A less expensive modification of our apparatus is shown in Figure 4. This is on the same principle, and consists in substituting for the receptacle A in Figure 1, a frame marked *a* and replacing the pail H in Figure 1 destined to contain the filth or dirt, by the pail *h*, which has the edge or lip h^1 of its upper part turned outwards and downwards so as to hang on the inner edge of the trough G this edge h^1 being clear of the upper part of the pail *h* is like the lip F of the cover E immersed in the liquid or substance contained in the trough G. The covers, levers, spring, regulator of the cover motion, *etc.* as well as the working of the apparatus is the same as before described, in Figure 1 with the only difference, that in Figure 4 the pail *h* itself destined to contain the dust or rubbish, becomes, also the hermetically closed receptacle.

We think it needless to remark, that the application of our apparatus is not limited to private houses only, because if manufactured in proper shapes and sizes they can possess great usefulness in the operating rooms at hospitals and medical schools for keeping remains, bandages, lint, dirty clothes, or infected articles and even disinfected materials when it may be desirable to keep them isolated from the outer air. We are aware that liquid sealed covers to dust bins have been proposed and also levers for lifting lids of spittoons and we do not claim these broadly but

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

First. The combination in a dust or refuse bin or receptacle of a liquid sealed or like cover pivoted thereto and mechanism for opening the cover and for automatically closing the cover by its own weight, the first part of the closing movement being caused by means of a spring causing the cover to move forwards, substantially as set forth.

Second. In combination with the parts under the first claim, the use of a check to regulate the closing movement of the cover, substantially as set forth.

Third. The automatically hermetically closing dust or refuse bin or receptacle, substantially as described and illustrated in the drawings.

Dated the Twenty-sixth day of February, 1910.

W. B. JOHNSON,
4, Clayton Square, Liverpool,
Agent.

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MUNAR Y. CONA & *another's* COMPLETE SPECIFICATION.

[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1

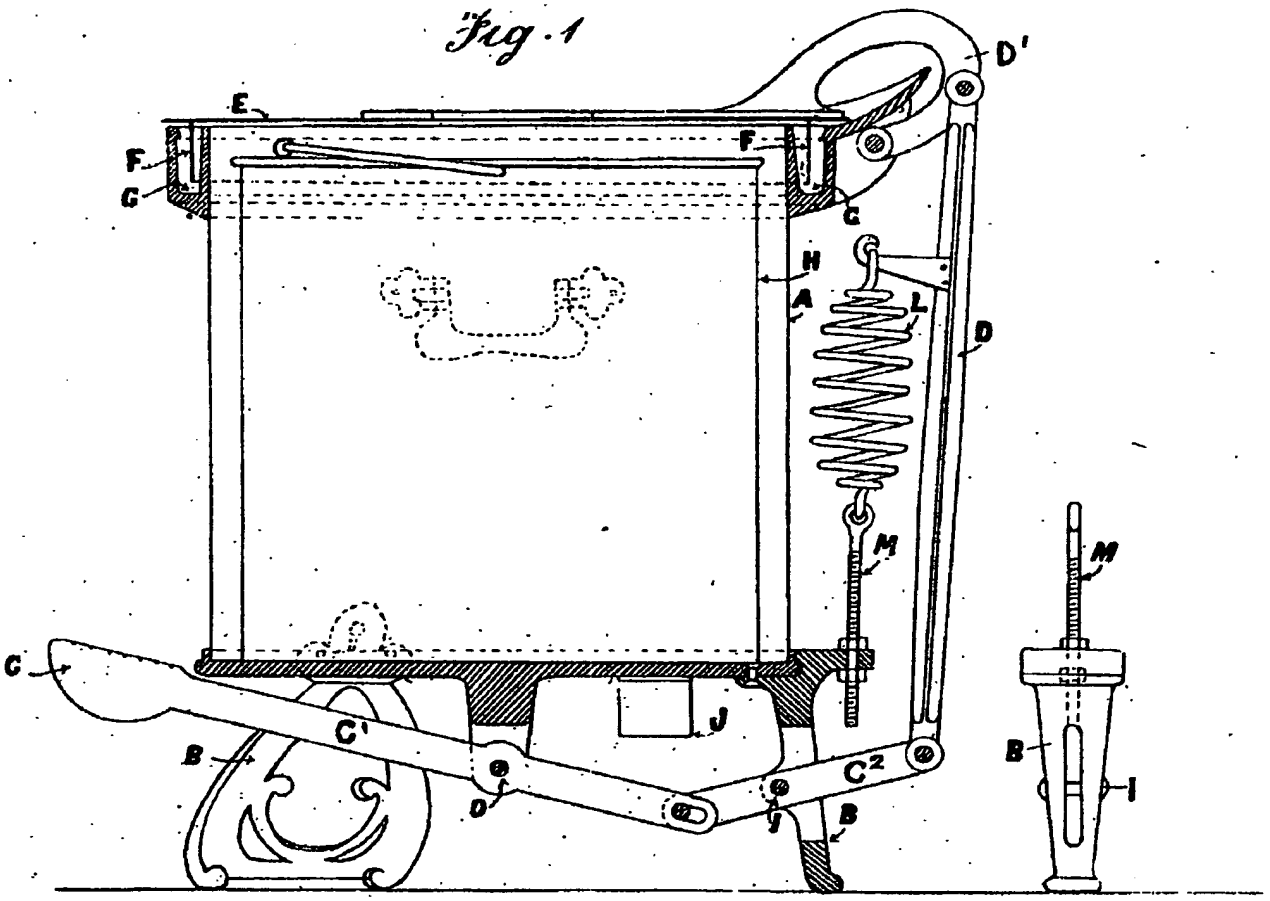


Fig. 2

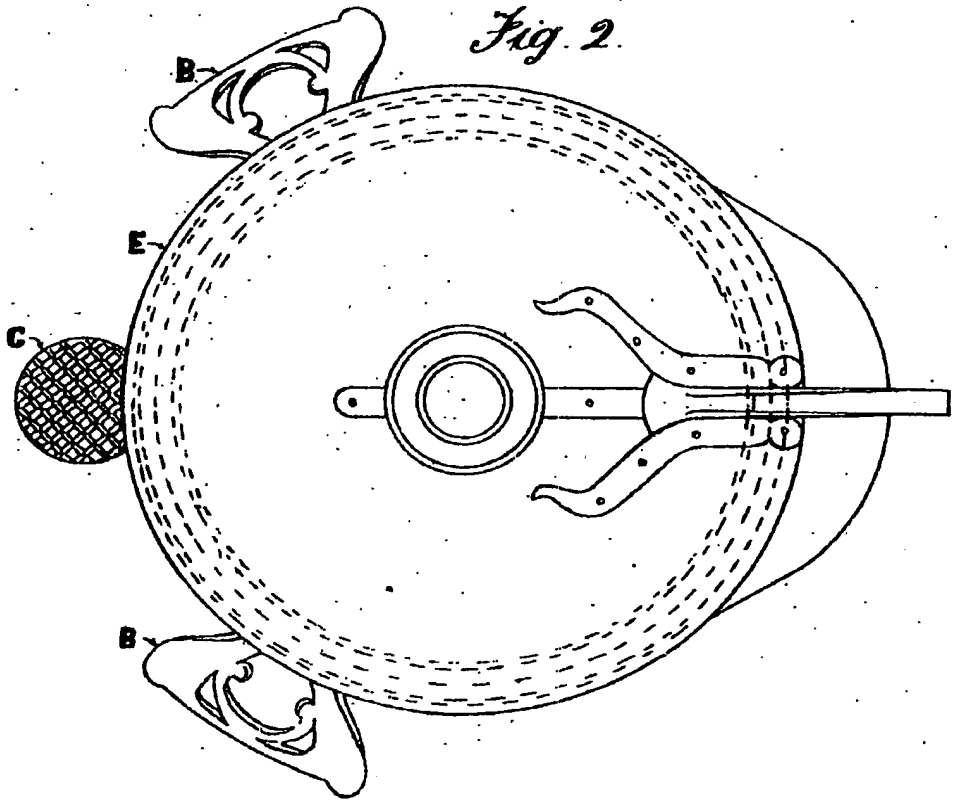


Fig. 3.

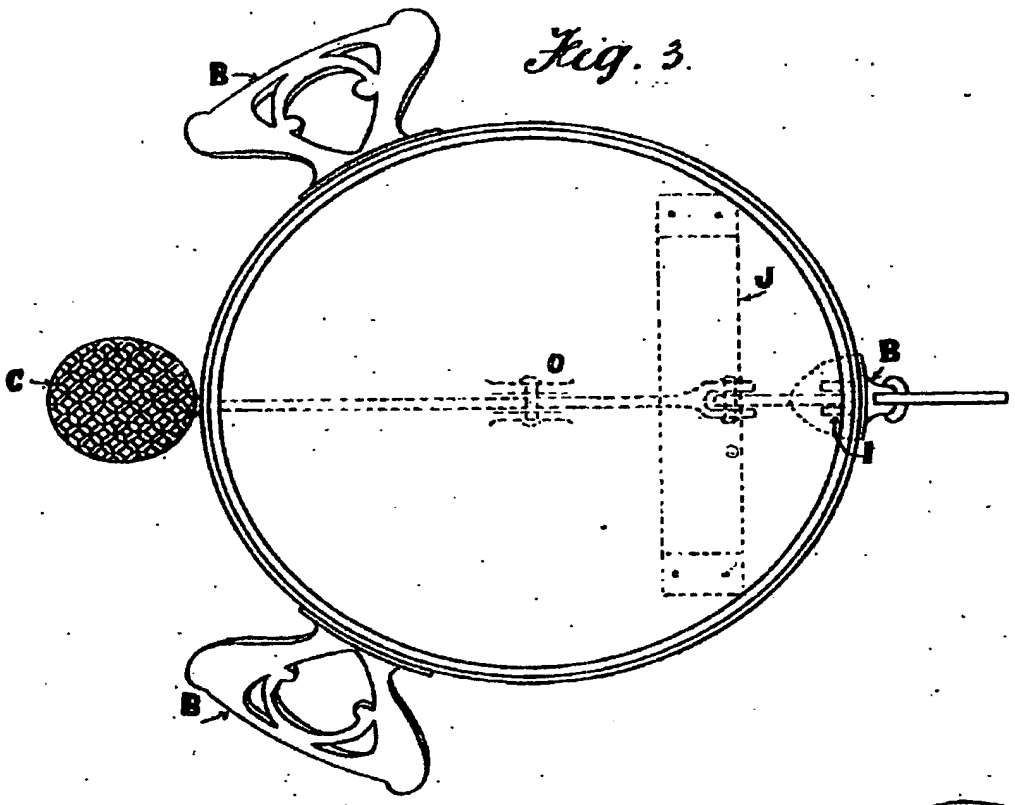
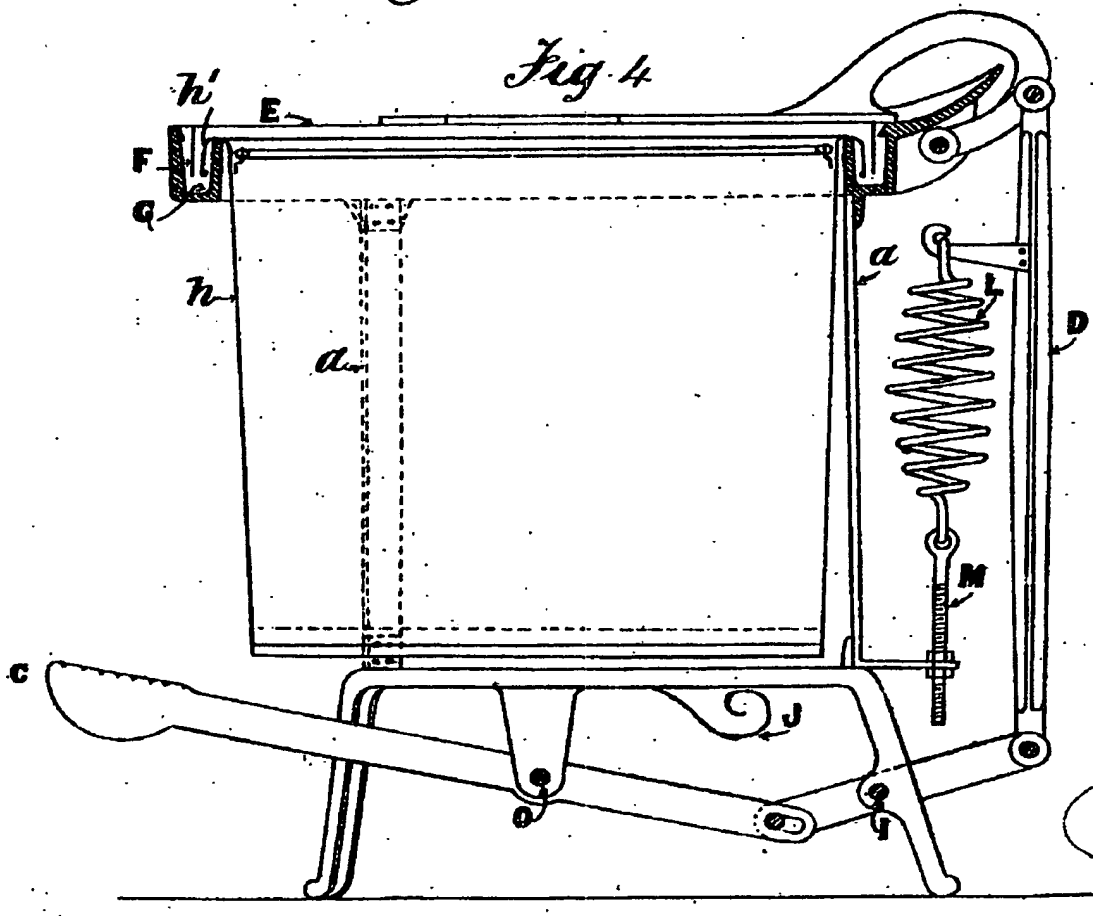


Fig. 4



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MUNAR V. CONA & another's Complete Specification.

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[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1

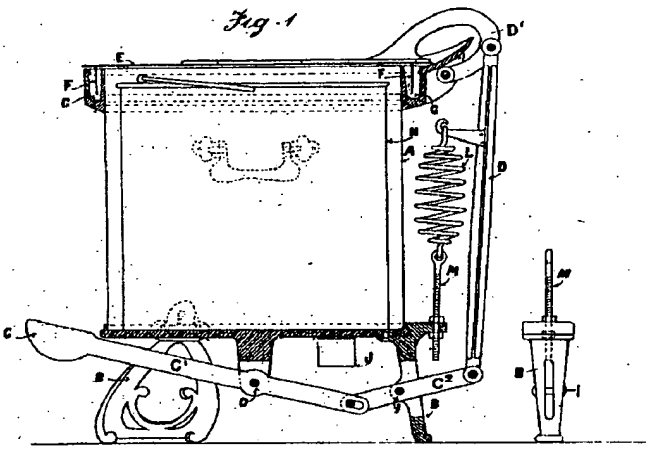


Fig. 2

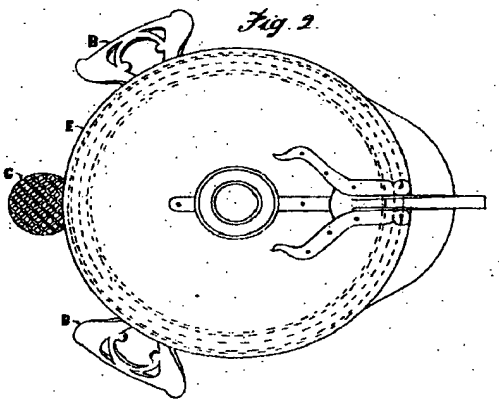


Fig. 3

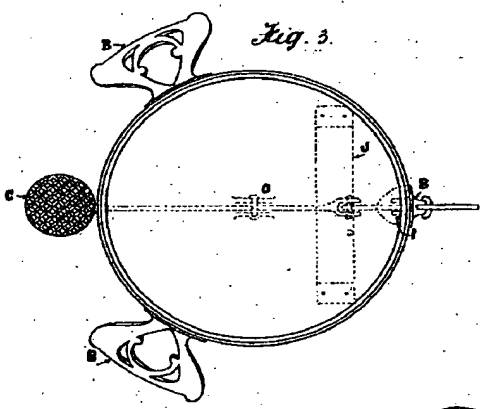
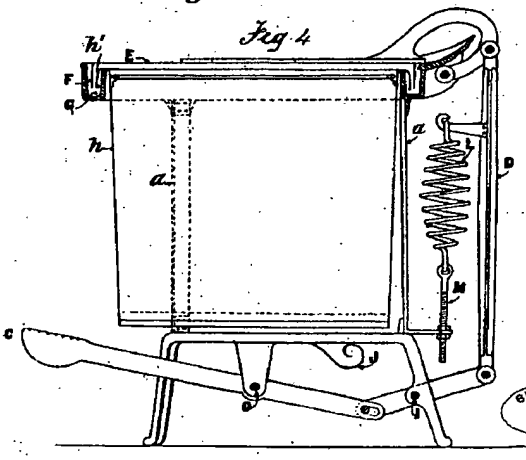


Fig. 4



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